

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/017,410	12/14/2001	Peggy J. Farnham	960296.97401	1459
7590 08/11/2004			EXAMINER	
Bennett J. Berson			YU, MISOOK	
Quarles & Brac	ly LLP			
1 South Pinckn	ey Street	ART UNIT	PAPER NUMBER	
P O Box 2113		1642		
Madison, WI 53701-2113			DATE MAILED: 08/11/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/017,410	FARNHAM ET AL.				
Office Action Summary	Examiner	Art Unit				
	MISOOK YU, Ph.D.	1642				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period who Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 De	ecember 2001.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-15</u> are subject to restriction and/or e	lection requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the d	lrawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction		, ,				
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary (					
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Dai 5) Notice of Informal Pa					
Paper No(s)/Mail Date	6)  Other:	,				

Art Unit: 1642

## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claim 1 partially, drawn to SEQ ID NO:2 mouse protein, classified in class 530, subclass 350.
- Claim 1 partially, drawn to SEQ ID NO:4 human protein, classified in class
   530, subclass 350.
- III. Claims 2-4, 11-15 all partially, drawn to polynucleotide encoding SEQ ID NO:2 mouse protein, SEQ ID NO:1, vector, host cell, kit comprising the primers from SEQ ID NO:1, classified in class 530, subclass 350, and others.
- VI. Claims 2-4, 11-15 all partially, drawn to polynucleotide encoding SEQ ID NO:4 human protein, SEQ ID NO:3, vector, host cell, kit comprising the primers from SEQ ID NO:3, classified in class 530, subclass 350, and others.
- V. Claims 5, 11-15 all partially, drawn to antibody to SEQ ID NO:2 mouse protein, and kit containing the antibody, classified in class 530, subclass 387.1.
- VI. Claims 5, 11-15 all partially, drawn to antibody to SEQ ID NO:4 human protein, and kit containing the antibody, classified in class 530, subclass 387.1.

- VII. Claim 6 partially, drawn to method of identifying modulators of expression of SEQ ID NO:2 mouse protein, classified in class 435, subclass 4.
- VIII. Claim 6 partially, drawn to method of identifying modulators of expression of SEQ ID NO:4 human protein, classified in class 435, subclass 4.
- IX. Claim 7-10 all partially, drawn to method of diagnosing a hepatocellular cancer using SEQ ID NO:1 mouse nucleic acid, classified in class 435, subclass 6.
- X. Claim 7-10 all partially, drawn to method of diagnosing a hepatocellular cancer using SEQ ID NO:3 human nucleic acid, classified in class 435, subclass 6.
- XI. Claim 7-10 all partially, drawn to method of diagnosing a hepatocellular cancer using antibody to SEQ ID NO:2 protein, classified in class 435, subclass 7.23.
- XII. Claim 7-10 all partially, drawn to method of diagnosing a hepatocellular cancer using an antibody to SEQ ID NO:4 human protein, classified in class 435, subclass 7.23.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different biological activities.

Art Unit: 1642

Inventions I and XI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case ) the product as claimed can be used in a materially different process such as making an antibody.

Inventions II and XII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case ) the product as claimed can be used in a materially different process such as making an antibody.

The product group III and the method groups VII and IX are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case ) the product as claimed can be used in a materially different process groups VII or IX.

The product group VI and the method groups VIII and X are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be

Application/Control Number: 10/017,410

Art Unit: 1642

practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case ) the product as claimed can be used in a materially different process groups VIII or X.

Inventions V and XI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case ) the product as claimed can be used in a materially different process such purifying a protein.

Inventions VI and XII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case ) the product as claimed can be used in a materially different process such purifying a protein.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Art Unit: 1642

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MISOOK YU, Ph.D. whose telephone number is 571-272-0839. The examiner can normally be reached on 8 A.M. to 5:30 P.M., every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey C Siew can be reached on 571-272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MISOOK YU, Ph.D.

misor f

Examiner Art Unit 1642